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of the progress of the Studies, Labours, and attempts of the Curious and learned in things of this kind, as of their compleat Discoveries and performances : To the end, that such Productions being clearly and truly communicated, desires after solid and usefull knowledge may be further entertained, ingenious Endeavours and Undertakings cherished, and those, addicted to and conversant in such matters, may be invited and encouraged to search, try, and find out new things, impart their knowledge to one another, and contribute what they can to the Grand design of improving Natural knowledge, and perfecting all *Philosophical Arts*, and *Sciences*. All for the Glory of God, the Honour and Advantage of these Kingdoms, and the Universal Good of Mankind.

An Account of the improvement of Optick Glasses.

There came lately from *Paris* a Relation, concerning the Improvement of *Optick Glasses*, not long since attempted at *Rome* by Signor *Giuseppe Campani*, and by him discoursed of, in a Book, Entitled, *Ragguaglio di nuoue Osservazioni*, lately printed in the said City, but not yet transmitted into these parts; wherein these following particulars, according to the Intelligence, which was sent hither, are contained.

The *First* regardeth the excellency of the long *Telescopes*, made by the said *Campani*, who pretends to have found a way to work great *Optick Glasses* with a Turne-tool, without any Mould : And whereas hitherto it hath been found by Experience, that *small Glasses* are in proportion better to see with, upon the Earth, than the *great ones*; that Author affirms, that his are equally good for the Earth, and for making Observations in the Heavens. Besides, he useth three Eye-Glasses for his great *Telescopes*, without finding any *Iris*, or such Rainbow colours, as do usually appear in ordinary Glasses, and prove an impediment to Observations.

The *Second*, concerns the *Circle of Saturn*, in which he hath observed nothing, but what confirms Monsieur *Christian Huygens de Zulichem* his Systeme of that Planet, published by that worthy Gentleman in the year, 1659.

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The *Third*, respects *Jupiter*, wherein *Campani* affirms he hath observed by the goodnes of his Glasses, certain *protuberancies* and *inequalities*, much greater than those that have been seen therein hitherto. He addeth, that he is now observing, whether those sallies in the said *Planet* do not change their scituation, which if they should be found to do, he judgeth, that *Jupiter* might then be said to turn upon his *Axe*; which, in his opinion, would serve much to confirm the opinion of *Copernicus*. Besides this, he affirms, he hath remarked in the *Belts* of *Jupiter*, the shaddows of his *satellites*, and followed them, and at length seen them emerge out of his Disk.

A Spot in one of the Belts of Jupiter.

The Ingenious Mr. *Hook* did, some moneths since, intimate to a friend of his, that he had, with an excellent twelve foot Telescope, observed, some days before, he than spoke of it, (*videl.* on the ninth of *May*, 1664. about 9 of the clock at night) a small Spot in the biggest of the 3 obscurer *Belts* of *Jupiter*, and that, observing it from time to time, he found, that within 2 hours after, the said Spot had moved from East to West, about half the length of the Diameter of *Jupiter*.

The Motion of the late Comet prædicted.

There was lately sent to one of the *Secretaries* of the *Royal Society* a Packet, containing some Copies of a Printed Paper, Entituled, The *Ephemerides* of the *Comet*, made by the same Person, that sent it, called *Monsieur Auxout*, a *French* Gentleman of no ordinary Merit and Learning, who desired, that a couple of them might be recommended to the said *Society*, and one to their *President*, and another to his Highness Prince *Rupert*, and the rest to some other Persons, nominated by him in a Letter that accompanied this present, and known abroad for their singular abilities and knowledge in Philosophical Matters. The end of the Communication of this Paper was, That, the motion of the *Comet*, that hath lately appeared, having been prædicted by the said *Monsieur Auxout*